

**Model: ATT90 Temperature Sensor for ThermoPLUS Advanced Temperature**  
**Model: ATT90-W RTD with welded type thermowell**

Basic Model No		Table				Option			
ATT90									
Sealing structure	Welded type	W							
Sheath length(mm)	4 digit (0050-1500)	1	2	3	4				
Sheath diameter (mm)	3.2				D				
	4.8				E				
	6.4				F				
	8				G				
Sensor	RTD				3				
Sensor resistance	Pt100 ohm				P				
	JPt100 ohm (Consults to sales representative)				Q				
Sheath material	SUS316				C				
Class	RTD	JIS	A *1		A				
			B		B				
Process connection	R1/2 (Male)				R				
	1/2NPT Male (Consults to sales representative)				N				
Option	No selection				X				
	Certificate of traceability				A				
	Test Report				T				
	With union connetion 100mm				U				
	With union connetion 150mm				V				
	With thermowell				W				

Option (1000yen)

Sheath length (mm)	Sheath dia. (mm)			
	D	E	F	G
0050<0100	69	69	69	69
0101<0200	69	69	70	70
0201<0300	69	70	71	71
0301<0400	70	70	71	72
0401<0500	70	71	72	73
0501<0600	73	74	75	77
0601<0700	74	75	76	78
0701<0800	74	75	77	79
0801<0900	74	76	77	80
0901<1000	75	76	78	81
1001<1100	75	77	79	82
1101<1200	75	77	80	83
1201<1300	76	78	80	83
1301<1400	76	78	81	84
1401<1500	76	79	82	85

11,000 yen is added to the above-mentioned table.

Option (1000yen)

Code	Description	Price
X	No selction	0
A	Certificate of traceability	58
T	Test report	5
U	With union connetion 100mm	42
V	With union connetion 150mm	44
W	With thermowell	0

note \*1 JIS Class A is added 11,000 yen to the option table.

**Model: ATT90 Temperature Sensor for ThermoPLUS Advanced Temperature**  
**ATT90-S RTD with Spring Loaded type thermowell**

Basic Model No		Table				Option			
ATT90									
Sealing structure	Spring loaded type	S							
Sheath length(mm)	4 digit (0050-1500)	1	2	3	4				
Sheath diameter (mm)	3.2				D	}			
	4.8				E				
	6.4				F				
	8				G				
Sensor	RTD				3				
Sensor resistance	Pt100 ohm				P	}			
	JPt100 ohm (Consults to sales representative)				Q				
Sheath material	SUS316				C				
Class	RTD	JIS	A *1		A	}			
			B		B				
Process connection	R1/2 (Male)				R	}			
	1/2NPT Male (Consults to sales representative)				N				
Option	No selection				X	}			
	Certificate of traceability				A				
	Test Report				T				
	With union connetion 100mm				U				
	With union connetion 150mm				V				
	With thermowell				W				

Option (1000yen)

Sheath length (mm)	Sheath dia. (mm)			
	D	E	F	G
0050<0100	81	81	81	81
0101<0200	81	81	82	82
0201<0300	81	82	82	83
0301<0400	82	82	83	84
0401<0500	82	83	84	85
0501<0600	85	86	87	89
0601<0700	86	87	88	90
0701<0800	86	87	89	91
0801<0900	86	88	89	92
0901<1000	87	88	90	92
1001<1100	87	89	91	93
1101<1200	87	89	91	94
1201<1300	88	90	92	95
1301<1400	88	90	93	96
1401<1500	88	90	93	97

11,000 yen is added to the above-mentioned table.

Option (1000yen)

Code	Description	Price
X	No selction	0
A	Certificate of traceability	58
T	Test report	5
U	With union connetion 100mm	42
V	With union connetion 150mm	44
W	With thermowell	0

note \*1 JIS Class A is added 11,000 yen to the option table.

**Model: ATT90 Temperature Sensor for ThermoPLUS Advanced Temperature**  
**Model: ATT90-W T/C with welded type thermowell**

Basic Model No		Table				Option				
ATT90										
Sealing structure	Welded type	W								
Sheath length(mm)	4 digit (0050-1500)	1	2	3	4					
Sheath diameter (mm)	3.2	D								
	4.8	E								
	6.4	F								
	8	G								
Sensor	Thermocouple	2								
Sensor type	J	J								
	K	K								
	T	T								
	E	E								
Sheath material	SUS316	C								
	SUS310S	D								
	NCF600	B								
Class	Thermocouple	JIS	1*1	1						
			2	2						
		ASTM	STD	4						
			SP (Consults to sales)	5						
Process connection	R1/2 (Male)	R								
	1/2NPT male (Consults to sales representative)	N								
Option	No selection	X								
	Certificate of traceability	A								
	Test Report	T								
	With union connetion 100mm	U								
	With union connetion 150mm	V								
	With thermowell	W								

note \*1 JIS Class 1 is added 9,000 yen to the option table.

Option (1000Yen)

Sheath length (mm)	Sheath dia.	D				E			
	Sheath mat'l	B	C		B	C			
	Element	K	K	J&T	E	K	K&E	J	T
0050<0100		60	59	59	60	60	60	60	60
0101<0200		60	60	60	60	62	60	60	60
0201<0300		60	60	60	60	63	61	61	61
0301<0400		61	60	60	61	64	61	61	62
0401<0500		61	60	61	61	66	62	62	62
0501<0600		64	63	64	64	70	65	65	66
0601<0700		65	64	64	65	71	66	65	66
0701<0800		65	64	65	65	73	66	66	67
0801<0900		65	64	65	65	74	67	66	68
0901<1000		66	64	65	66	75	67	67	68
1001<1100		66	65	66	66	77	68	67	69
1101<1200		67	65	66	67	78	68	68	70
1201<1300		67	65	66	67	79	69	68	70
1301<1400		67	65	67	67	81	70	69	71
1401<1500		68	66	67	68	82	70	69	72

Sheath length (mm)	Sheath dia.	F			G				
	Sheath mat'l	B	C		D	B	C		
	Element	K	J&E	T	K	K	J	T	E
0050<0100		60	60	60	60	62	61	60	60
0101<0200		61	61	61	61	66	62	61	61
0201<0300		63	61	62	61	69	64	62	63
0301<0400		64	62	62	62	72	65	63	64
0401<0500		65	63	63	63	76	67	64	65
0501<0600		69	67	67	66	82	71	68	69
0601<0700		70	67	68	67	85	73	69	70
0701<0800		71	68	69	68	88	74	70	71
0801<0900		73	69	69	69	92	76	71	72
0901<1000		74	70	70	69	95	77	72	73
1001<1100		75	71	71	70	98	79	73	74
1101<1200		76	71	72	71	102	80	74	76
1201<1300		77	72	73	72	105	82	75	77
1301<1400		78	73	74	72	108	83	76	78
1401<1500		80	74	74	73	111	85	77	79

9,000 yen is added to the above-mentioned table.

Option (1000yen)		Price
Code	Description	
X	No selection	0
A	Certificate of traceability	58
T	Test report	5
U	With union connetion 100mm	42
V	With union connetion 150mm	44
W	With thermowell	0

**Model: ATT90 Temperature Sensor for ThermoPLUS Advanced Temperature**  
**Model: ATT90-S T/C with Spring Loaded type thermowell**

Basic Model No		Table				Option				
ATT90										
Sealing structure	Spring loaded type	S								
Sheath length(mm)	4 digit (0050-1500)	1	2	3	4					
Sheath diameter (mm)	3.2	D								
	4.8	E								
	6.4	F								
	8	G								
Sensor	Thermocouple	2								
Sensor type	J	J								
	K	K								
	T	T								
	E	E								
Sheath material	SUS316	C								
	SUS310S	D								
	NCF600	B								
Class	Thermocouple	JIS	1*1	1						
			2	2						
		ASTM	STD	4						
			SP (Consults to sales)	5						
Process connection	R1/2 (Male)	R								
	1/2NPT male (Consults to sales representative)	N								
Option	No selection	X								
	Certificate of traceability	A								
	Test Report	T								
	With union connetion 100mm	U								
	With union connetion 150mm	V								
	With thermowell	W								

note \*1 JIS Class 1 is added 9,000 yen to the option table.

Option (1000Yen)

Sheath length (mm)	Sheath dia.	D				E			
	Sheath mat'l	B	C		B	C			
	Element	K	K	J&T	E	K	K&E	J	T
0050<0100		78	78	78	78	79	78	78	78
0101<0200		78	78	78	78	80	78	78	79
0201<0300		79	78	78	79	81	79	79	79
0301<0400		79	78	79	79	83	79	79	80
0401<0500		79	79	79	79	84	80	80	81
0501<0600		83	82	82	83	88	83	83	84
0601<0700		83	82	83	83	89	84	84	85
0701<0800		83	82	83	83	91	84	84	85
0801<0900		84	82	83	84	92	85	85	86
0901<1000		84	83	84	84	93	86	85	87
1001<1100		84	83	84	84	95	86	86	87
1101<1200		85	83	84	85	96	87	86	88
1201<1300		85	83	85	85	97	87	87	88
1301<1400		86	84	85	86	99	88	87	89
1401<1500		86	84	85	86	100	88	88	90

Sheath length (mm)	Sheath dia.	F			G				
	Sheath mat'l	B	C		D	B	C		
	Element	K	J&E	T	K	K	J	T	E
0050<0100		79	78	78	78	81	79	78	78
0101<0200		80	79	79	79	84	80	79	80
0201<0300		81	80	80	80	87	82	80	81
0301<0400		82	80	81	80	91	83	81	82
0401<0500		83	81	82	81	94	85	82	83
0501<0600		87	85	85	85	100	89	86	87
0601<0700		88	86	86	85	103	91	87	88
0701<0800		90	86	87	86	107	92	88	89
0801<0900		91	87	88	87	110	94	89	90
0901<1000		92	88	89	88	113	95	90	91
1001<1100		93	89	89	88	116	97	91	93
1101<1200		94	90	90	89	120	98	92	94
1201<1300		96	90	91	90	123	100	93	95
1301<1400		97	91	92	90	126	102	94	96
1401<1500		98	92	93	91	130	103	95	97

9,000 yen is added to the above-mentioned table.

Option (1000yen)

Code	Description	Price
X	No selection	0
A	Certificate of traceability	58
T	Test report	5
U	With union connetion 100mm	42
V	With union connetion 150mm	44
W	With thermowell	0